

Std Library Function	Meaning
char s[n]	$n \subseteq alloc(s)$
strlen(s)	$lens(s) - 1$
strcpy(dst, src)	$len(src) \leq len(dst)$
strncpy(dst, src, n)	$\max(len(src), n) \leq len(dst)$
s = "string"	$7 \leq lens(s), 7 \leq alloc(s)$
p = malloc(n)	$n \subseteq alloc(p)$
p = strdup(s)	$len(s) \leq len(p), alloc(s) \leq alloc(p)$
strcat(s, suffix)	$len(s) + len(suffix) - 1 \leq len(s)$
strncat(s, suffix, n)	$len(s) + \min(len(suffix) - 1, n) \leq len(s)$
p = getenv(...)	$[1, \infty] \subseteq len(p), [1, \infty] \subseteq alloc(p)$
gets(s)	$[1, \infty] \subseteq len(s)$
fgets(s,n)	$[1, n] \subseteq len(s)$
sprintf(dst, "%s", src)	$len(src) \leq len(dst)$
sprintf(dst, "%d", n)	$[1, 20] \subseteq len(dst)$
snprintf(dst, n, "%s", src)	$\min(len(src), n) \leq len(dst)$
p[n] = '\0'	$\min(len(p), n + 1) \leq len(p)$
h = gethostbyname(..)	$[1, \infty] \subseteq len(), [-\infty, \infty] \subseteq (h \rightarrow h_length)$

Table 1